

Title (en)

INVERTER CONTROL DEVICE, INVERTER CONTROL METHOD, AND INVERTER CONTROL PROGRAM

Title (de)

WECHSELRICHTERSTEUERUNG, WECHSELRICHTERSTEUERUNGSVERFAHREN UND WECHSELRICHTERSTEUERUNGSPROGRAMM

Title (fr)

DISPOSITIF DE COMMANDE D'ONDULEUR, PROCÉDÉ DE COMMANDE D'ONDULEUR ET PROGRAMME DE COMMANDE D'ONDULEUR

Publication

EP 3783791 A1 20210224 (EN)

Application

EP 19789213 A 20190312

Priority

- JP 2018079041 A 20180417
- JP 2019009875 W 20190312

Abstract (en)

To improve control characteristics of an inverter while suppressing manufacturing cost. An inverter control device 10 is a device for controlling an inverter device 1 having a plurality of switching elements. The inverter control device 10 includes a current control unit 13 that calculates three phase voltage command signals V_u^* , V_v^* , and V_w^* based on a d-axis current command signal i_d^* and a q-axis current command signal i_q^* at each predetermined calculation period T_0 , a sampling period conversion unit 14 that outputs three phase voltage command signals V_u^{**} , V_v^{**} , and V_w^{**} after update at each predetermined update period T_1 different from the calculation period T_0 based on a calculation result of the three phase voltage command signals V_u^* , V_v^* , and V_w^* by the current control unit 13, and a gate signal generation unit 15 that generates a gate signal for switching-driving a plurality of the switching elements based on the three phase voltage command signals V_u^{**} , V_v^{**} , and V_w^{**} after update output from the sampling period conversion unit 14.

IPC 8 full level

H02M 7/48 (2007.01)

CPC (source: EP US)

H02M 1/0009 (2021.05 - EP); **H02M 1/0025** (2021.05 - EP); **H02M 7/53803** (2013.01 - US); **H02M 7/53871** (2013.01 - EP); **H02M 7/53873** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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